

CLAIMS

What is claimed is:

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1 Claim 1. An apparatus for securement of a low profile
2 auxiliary diesel generator to large vehicles having a frame and
3 entry doors for an operator, said apparatus functioning as a
4 step when mounted on said frame below an entry door, said step
5 comprising an enclosure having an interconnected floor parallel
6 to and below said frame, opposite vertical side walls, opposite
7 vertical end walls, and a top parallel to said floor, an
8 integral engine/generator set fixed in said enclosure, said set
9 having a liquid cooled internal combustion diesel engine
10 rigidly connected to an electrical generator by a thin vertical
11 planar bracket, said diesel engine having at least one cylinder
12 disposed parallel to said floor for turning said generator to
13 produce electricity, said set connected to isolation mounts to
14 reduce vibration, said isolation mounts fixed to said floor.

1 Claim 2. The apparatus according to claim 1 wherein the
2 height of said vertical end walls and said vertical side walls
3 is approximately 15 inches.

1 Claim 3. The apparatus according to claim 1 wherein said
2 liquid cooled diesel engine has a remotely mounted radiator and
3 associated fan.

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1 Claim 3. The apparatus according to claim 1 wherein said
2 liquid cooled diesel engine has a remotely mounted radiator and
3 associated fan.

1 Claim 4. The apparatus according to claim 3 wherein said
2 radiator and said are fan mounted on a vertical wall outside
3 said enclosure.

1 Claim 5. The apparatus according to claim 4 wherein said
2 vertical wall is perforated and has a height of approximately
3 14 inches.

1 Claim 6. The apparatus according to claim 4 wherein said
2 radiator is located between said perforated wall and said fan
3 whereby said fan extracts heat from said enclosure and provides
4 air flow across said radiator.

1 Claim 7. The apparatus according to claim 1 wherein said
2 vertical end walls are hinged to said top.

1 Claim 8. The apparatus according to claim 7 wherein said
2 vertical end walls are two piece constructions whereby
3 operation of said hinge to provide access to said enclosure
4 separates said two piece construction.

09945186-083101
TOTAL 9874660

1 Claim 9. The apparatus according to claim 7 wherein said
2 opposite side walls are fixedly interconnected with said
3 opposite end walls and said top is hingedly connected to said
4 box to provide access to said enclosure.

1 Claim 10. The apparatus according to claim 1 wherein said
2 top is a removable cover.

1 Claim 11. The apparatus according to claim 1 wherein said
2 floor extends beyond said side walls forming a planar step.

1 Claim 12. The apparatus according to claim 1 wherein said
2 integral engine is a horizontally disposed one cylinder liquid
3 cooled Kubota diesel engine.

1 Claim 13. The apparatus according to claim 1 wherein said
2 liquid cooled diesel engine is coupled to the truck radiator
3 for cooling purposes.

1 Claim 14. An apparatus for securement of a low profile
2 auxiliary diesel generator to large vehicles having a frame,
3 said apparatus functioning as an auxiliary engine enclosure

09945186 "083101

1 when mounted on said frame, said enclosure having an
2 interconnected floor parallel to said frame, opposite vertical
3 side walls, opposite vertical end walls, and a top parallel to
4 said floor, an integral engine/generator set fixed in said
5 enclosure, said set having a liquid cooled internal combustion
6 diesel engine rigidly connected to an electrical generator by
7 a thin vertical planar bracket, said engine having at least one
8 cylinder disposed parallel to said floor for turning said
9 generator to produce electricity, said set connected to
10 isolation mounts to reduce vibration, said isolation mounts
11 fixed to said floor.

1 Claim 15. The apparatus according to claim 14 wherein the
2 height of said vertical end walls and said vertical side walls
3 is approximately 15 inches.

1 Claim 16. The apparatus according to claim 14 wherein
2 said liquid cooled diesel engine has a radiator and associated
3 fan, said radiator and said fan remotely mounted.

1 Claim 17. The apparatus according to claim 14 wherein said
2 vertical wall includes at least one discharge opening.

1 Claim 18. The apparatus according to claim 16 wherein
2 said radiator is located between said perforated wall and said

1 associated fan whereby said fan extracts heat from said
2 enclosure and provides air flow across said radiator.

1 Claim 19. The apparatus according to claim 14 wherein
2 said hinge couples to said opposite vertical end walls along
3 said vertical side wall and said top.

1 Claim 20. The apparatus according to claim 19 wherein
2 said vertical end walls are two piece constructions whereby
3 operation of said hinge to provide access to said enclosure
4 separates said two piece construction.

1 Claim 21. The apparatus according to claim 19 wherein
2 said opposite side walls are fixedly interconnected with said
3 opposite end walls and said top is hingedly connected to said
4 box to provide access to said enclosure.

1 Claim 22. The apparatus according to claim 14 wherein
2 said liquid cooled diesel engine is coupled to the truck
3 radiator for cooling purposes.